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# INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 1128WOORD02		of Transmittal of International Search Report 20) as well as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/EP 03/ 08675	06/08/2003	10/08/2002
Applicant		
ALTANA PHARMA AG		
This International Search Report has bee according to Article 18. A copy is being tra	n prepared by this International Searching Aut ansmitted to the International Bureau.	nority and is transmitted to the applicant
This International Search Report consists  It is also accompanied by	of a total of5 sheets. a copy of each prior art document cited in this	report.
Basis of the report	•	
With regard to the language, the language in which it was filed, unlined.	international search was carried out on the ba ess otherwise indicated under this item.	sis of the international application in the
the international search w Authority (Rule 23.1(b)).	ras carried out on the basis of a translation of t	he international application furnished to this
b. With regard to any <b>nucleotide</b> an was carried out on the basis of th	nd/or amino acid sequence disclosed in the in e sequence listing: onal application in written form.	nternational application, the international search
	ernational application in computer readable for	m.
	this Authority in written form.	
furnished subsequently to	this Authority in computer readble form.	
the statement that the sul international application a	osequently furnished written sequence listing one is the contract of the contr	oes not go beyond the disclosure in the
the statement that the infe	ormation recorded in computer readable form I	s identical to the written sequence listing has been
2. X Certain claims were fou	nd unsearchable (See Box I).	
3. Unity of invention is lac	king (see Box II).	
4. With regard to the title,		
the text is approved as su	bmitted by the applicant.	
X the text has been establis	hed by this Authority to read as follows:	
PYRROLIDINEDIONE SUBST	TITUTED PIPERIDINE-PHTHALAZO	NES AS PDE4 INHIBITORS
5. With regard to the abstract,		
the text is approved as su the text has been establis within one month from the	abmitted by the applicant. thed, according to Rule 38.2(b), by this Authori e date of mailing of this international search re	ty as it appears in Box III. The applicant may, port, submit comments to this Authority.
6. The figure of the drawings to be pub	ished with the abstract is Figure No.	4
as suggested by the appli	cant.	None of the figures.
because the applicant fail	ed to suggest a figure.	<del>_</del>
because this figure better	characterizes the invention.	

## INTERNATIONAL SEARCH REPORT

Interpolication No PC P 03/08675

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C07D401/14 A61K31/502 A61P11/00

According to International Patent Classification (IPC) or to both national classification and IPC

#### **B. FIELDS SEARCHED**

 $\begin{array}{cccc} & \text{Minimum documentation searched (classification system followed by classification symbols)} \\ & IPC & 7 & C07D & A61K & A61P \end{array}$ 

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, BEILSTEIN Data, CHEM ABS Data

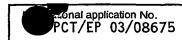
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,A	WO 02 085906 A (ALTANA PHARMA AG; STERK GEERT JAN (NL)) 31 October 2002 (2002-10-31) cited in the application Abstract; claim 1.	1-18
P,A	WO 02 064584 A (BYK GULDEN LOMBERG CHEM FAB; GUTTERER BEATE (DE); GRUNDLER GERHARD) 22 August 2002 (2002-08-22) cited in the application Abstract; claim 1.	1–18
A	WO 01 94319 A (BYK GULDEN LOMBERG CHEM FAB; STERK GEERT (NL); BYK NEDERLAND BV (N) 13 December 2001 (2001-12-13) cited in the application Abstract; claims 1-10.	1-18

Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents:  A' document defining the general state of the art which is not considered to be of particular relevance  E' earlier document but published on or after the international filing date  L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  O' document referring to an oral disclosure, use, exhibition or other means  P' document published prior to the international filing date but later than the priority date claimed	"T" later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.  "&" document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
25 November 2003	03/12/2003
Name and malling address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Weisbrod, T

### INTERNATIONAL SEARCH REPORT

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Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)	
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following rea	sons:
1. X Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:	
Although claims 17-18 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the aleffects of the compound/composition.	leged
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:	1
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.40	(a).
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)	
This International Searching Authority found multiple inventions in this international application, as follows:	
	;
1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.	
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payme of any additional fee.	nt
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:	
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:	
Remark on Protest	otest.
No protest accompanied the payment of additional search fees.	

## INTERNATIONAL SEARCH REPORT

Interpolation No PC 03/08675

			<del></del>				03/060/5
	tent document in search report		Publication date		Patent family member(s)		Publication date
WO	02085906	Α	31-10-2002	WO	02085906 /	<b>A2</b>	31-10-2002
WO	02064584	Α	22-08-2002	CA	2438520	41	22-08-2002
				EE	200300311	4	15-10-2003
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				EP	1362044	A1	19-11-2003
WO	0194319	 A	13-12-2001	 AU	6233201	 A	17-12-2001
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